

7300055

THE UNITED STATES OF AMERICA

Planting Seed Division of Agronomics, Inc.

Withereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF SEVENTEEN YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT

COTTON

'Earlycot 31.' ..

In Lestimony Watercot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, OC this birst day of June in the year of our Lord one thousand nine hundred and seventy-six

Fearl L. Berty Secretary of Agriculture

Commissioner State Vision Office State Vision

Plant Variety Grafectica Office Gain Division Acricultural Marketica Secrica

FORM APPROVED OMB NO. 40-R3712

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

1. VARIETY NAME OR TEMPORARY DESIGNATION (ICANULICOTE ALIII	NS: See Reverse. NAME OF TEMPORARY 2. KIND NAME 4 . FOR OF							
HC ACLULICATE TO M	Ame	2. KIND NAME American		PVPO NUMBER				
"EARLY COT 31"	Upland (otto			055				
GENUS AND SPECIES NAME	4. FAMILY NAME (BO	4. FAMILY NAME (Botanical) mairie FILING DATE 7.						
Gossypium	5. DATE OF DETERM		FEE RECEIVED	CHARGES				
Hirsutum	Sept. 1, 197	7() nd No. or R.F.D. No.,	\$/ 50	8. TELEPHONE	AREA			
Rlanting Seed Division	in gende) i R.P.	Box, 16051		SO6				
o f	Lubi	bock, Texas		799 - 1	16			
of Agronomics, Incorporated			**N. S. +2	11. DATE OF	NCOR-			
9. IF THE NAMED APPEICANT IS NOT A PEOPLE ORGANIZATION: (Comparation, pertnership (onponation.	, association, etc.)	Texas	gy american file and a file of the control of the c	Oct. 197	72			
12. Name and mailing address of appli Bob G. Anthony	cant répresentative	s), if any, to serve	in this application a	and receive all	papers:			
Planting Seed Division		in the second	No Maria					
Agronomics, Inc. Box 16	05/ -	TO BE WARE LONG TO SERVICE THE	mare in					
Lubbock, Texas 79490								
13. CHECK BOX BELOW FOR EACH ATTAC	HMENT SUBMITTED:							
X 128. Exhibit B, Botanical Des	cripmon of the Varie	in specimen a little eff	and Armania Armania Armania					
X 12D. Exhibit D, Data Indicativ	re of Novelty	Carlotte Carlot		,				
X 12D. Exhibit D, Data Indicativ	ne of Novelty	it's Ownership	te po jama ses	request before	e issu-			
X 12D. Exhibit D, Data Indicativ	he Basis of Applican	it's Ownership	in po	request before	e issu- cable.			
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The applicant declares that a viable ance of a certificate and will be rep	he Basis of Applicant sample of basic seedlenished periodically at seed of this variety (If "Yes," answer hat this variety be ons?	d of this variety with accordance with the sold by variety be sold by variety be sold by variety be sold by variety beyond bree	Il be deposited upon h such regulations a clay name only as a clay No 14B, how many ger	a request before s may be appli ass of certified	l seed?			
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Earlycot 31 is a breeder's selection from an experimental strain, (A-491. (A-491 is a cross made in the mid 1950's by Dr. Levon Ray of the Texas A & M. Agricultural Experiment Station at Lubbock, Texas. It is a product of a cross between Paymaster Stormrider (a commercial variety) and an experimental strain obtained from Yugoslavia. Selections were then made throughout the years for earliness, lint productivity, lint quality and boll stormproofness and plant type. The progeny of these selections was made available to commercial breeders in the mid 1960's.

Mr. Bob Anthony of Lubbock, Texas obtained a portion of this release and made further selections in the year 1969 for only the characters of earliness and stormproofness. These selections were bulked and increased in mass in 1970 and this population was heavily rogued for off-type plants. The progeny from this increase was again increased in 1971 and in 1972 the increase was distributed among growers under contract for production of seed toward a commercial release date of 1973.

There are three common variants found in the "Earlycot 31" population. One is a relatively intermediate type that is taller than the other plants. It is fairly indeterminate, pyramidal in shape and possesses additional vegetative branches. Its pollen is dark yellow in color. This variant occurs at the approximate rate of 1 in 300. The second variant is distinguished from the rest of the population only by its leaf type. It possesses a darker green, five lobed leaf 4/5 cut into lanceolate acuminate lobes. This variant occurs at the rate of approximately 1 in 800. The third variant is smaller in stature, more determinate and earlier maturing than the rest of the population and has a smaller, ovule-shaped boll. Fiber length in this boll is also shorter (approximately 7/8 inch). This variant occurs at the rate of approximately 1 in 500.

Stability in this population is reasonably good. Since the cross was made in 1956, fifteen years of further selection by qualified cotton breeders has been accomplished. For the past three years the percentage of the three variants has remained relatively constant, and fiber data indicate uniformity in staple length, strength and micronaire for the past three years.

The seed of "Earlycot 31" has near 90% light to moderate fuzz-coat with the fuzz light grey to slightly greenish in color. The remaining 10% has little on no fuzz-coat. 15 fuffed. Little 6/25/14

The plant possesses no unique characteristics while passing through the seedling stage, however, it is an extremely early flowerer. In Texas A & M. Research (enter tests at Lubbock, Texas in 1970, 1971, and 1972 (the only years "Earlycot 31" was entered in tests) "Earlycot 31" flowered or "bloomed" 5 to 7 days before any other commercial variety. (onsequently, it also had the first mature, open boll in the tests.

The main stem at maturity is shorter in stature than most other upland, storm resistant, stripper types. It attains a height of approximately 76 to 78 cm with normal weather patterns at Lubbock, Texas. The lateral branches throughout the whole length of the main stem at maturity is shorter than most other types. Thus, the plant has the appearance of one with moderately columnate form. The nodes up the main stem and those of the fruiting branches are closely spaced. All stems are moderately pubescent.

The leaves are medium in size, condate 1/3 to 1/2 cut into 3 to 5 lobes. The lobes are broadly triangular acuminately not constricted. All leaves have moderate to heavy pubescence.

The flowers are medium sized with a short staminal column. The upper filaments are longer than the lower. Pollen is light yellow and very fine in particle size. The bracteoles are slightly longer than broad, cordate, gashed into 10 to 12 long acuminate teeth which are more than 4 times as long as broad.

The bolls are medium sized to small, nound with a slightly pointed end and contain a moderate number of oil glands. Approximately 50% of the bolls contain 5 carpels and 50% contain 4 carpels. Usually 7 to 8 seeds are found in each lock. The plants have 98% storm resistant bolls. The lint staples 15/16" to 31/32" with fiber strength of 75,000 to 85,000 psi, Pressley. The fiber is very coarse with micronaire in the 3.8 to 4.5 range.

Exhibit B, Botanical Description ((on't.)

"Earlycot 31" exhibits extremely early maturity. It blooms earlier than any other commercial variety in the United States. Planted June 1, at Lubbock, Texas, the plant normally flowers within 43 to 45 days from planting. The time required from planting to mature, open boll is usually 88 to 93 days.

"Earlycot 31" is well adapted to norther areas of the South Plains of Texas and to other areas with marginal growing seasons, where time of first frost is a limiting production factor.

"Earlycot 31" exhibits the following comparative characteristics:

Same plant type as Lockett 4789A, but approximately 10 days earlier with coarser, shorter fiber; approximately 5 days earlier than Paymaster 54-B, but is much more storm resistant; has similar fiber characteristics to Stripper 31, but, again is approximately 7 days earlier. There are presently no commercial varieties which exhibit the same earliness as does "Earlycot 31".

Exhibit **B**, Data Indicative of Novelty Application No. 73055, "Earlycot 31"

"Earlycot 31" was developed for areas in the cotton belt which have extremely short growing seasons. It does not have the yield potential other commercial varieties have, if the other varieties have enough growth time to mature; however, in short-season situations, where growth is pre-maturely terminated due to a frost or freeze, "Earlycot 31" has consistently outyielded all other commercial varieties.

"Earlycot 31" is novel due to its extreme earliness. In experiment station tests conducted by Dr. Levon Ray at the Texas A&M Research Center at Lubbock, Texas, "Earlycot 31" has initiated first flower approximately two days earlier than "Paymaster Dwarf", the variety nearest in earliness to "Earlycot 31". Compared to other early maturing commercial varieties, "Earlycot 31" initiates first flower approximately 5 days earlier than Paymaster 54-B, 7 days earlier than "Rilcot 90", "Gregg 35", and "Stripper 31", and 10 days earlier than "Paymaster 111" and "Lankart 57".

As far as we have been able to determine, no other commercial variety in the United States initiates first flower as early as does "Earlycot 31".

Earlycot 31 is similar to Paymaster Dwarf except that Earlycot 31 exhibits a significantly greater degree of earliness than does Paymaster Dwarf, both in days to first white bloom and percentage of open cotton at approximately 150 days from planting.

of open cotton at approximately 150 days from planting.

Comparative data was compiled and computed at three locations in two tests by Dr. Lavon Ray at Lubbock, Texas, Dr. Douglas Owen at

Halfway and Bob Anthony at Seminole, Texas.

The accompanying tables show results of the tests. Computations for variance show that the difference for both number of days from planting to first white bloom and also percentage of open bolls between Earlycot 31 and Paymaster Dwarf was significant in all tests at the .05 level of probably.

EXHIBIT D

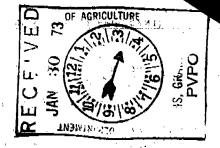
'Earlycot 31' most closely resembles 'Paymaster Dwarf' except that 'Earlycot 31' initiates flowers 2 days earlier, matures 5 days earlier, has smaller bolls (5.0 vs 5.5 grs seed cotton), has shorter lateral branch nodes, dark green leaves (vs light green), yellow pollen (vs cream), fine boll pitting (vs coarse), stormproof bolls (vs storm resistant, bracticle length > width (vs length < width), fine bracticle teeth (vs coarse), has a 2.5 percent span length of .95 inches (vs 1.00), has a micronaire of 4.5 (vs 4.25) and is not resistant to bacterial blight.

Bal & Mulkony

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INSTRUCTIONS

11.11/17



GENERAL: Send an original copy of the application, exhibits and \$50.00 fee to U.S. Dept. of Agriculture, Consumer and Marketing Service, Grain Division, Hyattsville, Maryland 20782. Retain one copy for your files. All Items on the face of the form are self-explanatory unles noted below.

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Insert the date the applicant determined that he had a new variety.

- 12a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 12b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.
 - 12c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
 - 12d Provide complete data indicative of novelty. Seed and plant specimens may be submitted and seeds submitted may be sterile. Where possible, include photographs of plant comparisons, chemical tests, etc.
 - 12e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

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1975 Irrigation-Variety Test '970 Open Bolls 10/2 thru 10/7 HALL

HALFWAY, TEXAS

TABLE

Irrigation Method

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	PAYMA.	ter 18		13.4	3.7	8.6						
	EARLY		1	22.6	20.7	21.6						
	Del-n		li .	14.7	3.8	9.2				·		
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	SSA	71		4.1	5.6	4.9						
	Rikot	String	RN	9.5	5.4	7.5						
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1	Locker	•	A	19.8	8.4	14.1						
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Days from Planting to First Bloom for Six Cultivars Planted on Three Planting Dates at Lubbock, Texas, 1974

Cultivar	Planting May 29	g Dates June 14	June 28	Average
Earlycot 31	50	47	51	49.3
CA 1815	53	46	50	49.7
CA 1371	54	4 7	52	51.0
Paymaster Dwarf	54	5 0	52	52.0
Tamcot SF-21	50	52	54	52.3
Rilcot 90	51	54	55	53.0

TABLE 6

Date of Bloom Test taken at Seminole, Texas- Planted June 2, 1975

Variety	No. of Day Rep. # 1			First white 3 Rep. # 4	
Earlycot 31	48	47	49	47	47.75
Paymaster Dwarf	51	5Ò	49	49	49.75
Stripper 31	<u>5</u> 8	56	56	56	56.5
Lankart 57	58	57	60	57	58.0
Paymaster 111	60	59	59	58	59.0
Blightmaster A-5	62	62	6 1	60	61.25

LUBBOCK, TEXAS	% of Open	Bolls	10/2/75 - 1	151 Days	from Planting
VARIETY	,		REPLICATION	1.	AVERAGE
Paymaster Dwarf Earlycot 31	31% 64%	2 50 % 60 %	18% 64%	4 30% 55%	32 % 61%

TABLE 2

SEMINOLE, TEXAS	% of	Open Bolls 10/2/75 - REPLICATION	148 Days	from Planting AVERAGE
VARIETY	1	2 3	4	
Paymaster Dwarf Earlycot 31	42% 58%	64% 48% 71% 62%	36% 48%	48% 59%

Supplement to Exhibit "D", Data Indicative of Novelty Application No. 73055 "Earlycot 31"

The commercial variety most closely resembling "Earlycot 31" is "Paymaster Dwarf". The following is a list of comparable characters.

•	Plant	Plant	t Main		o lst		of no	
	Type	Heigh	ht Stem	fruit	t_bran	ch to	<u>lst</u> fm	uit branch
"Earlycot 31"	Compac	t 78cm	n Erec	t 9			4	
"Paymaster Dwarf"	Compac				L		5	
	<u> </u>				·			
•		Leaf	Leaf	Leaf		wer		Pollen
	Width			type		taries		Color
"Earlycot 31"	9 cm	mod.	Dk. Gr			es		Yellow
"Paymaster Dwarf"	11 cm	mod.	Lt. Gr	• Norma	al Y	es	Cream	Cream
	Fruiti	ng C	ossypol	Seed	See	d IN	o. boll	BOI I
	Branch			n Inde			ocules	Pitting
"Earlycot 31"	Short,			11.			4-5	Fine
"Paymaster Dwarf"			Normal	11.0			4- 5	Coarse
Landman Act DMatt.	DITUE 69.	750. I	ANT MOT	TT.*/	12100	· • '	√ −,	OOGIBE
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"Paymaster Dwarf"	Storm			réater		d Mid.		
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"Paymaster Dwarf"	45.0 W	idth Gi	reater	8 to	1 0		Coarse	
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"Earlycot 31"	100%	<u>50% Spa</u> •43	•95	n Dari 1	45	31/32"	79,000	s vii Dome i
"Paymaster Dwarf"	105%	•45	1.00		45	1"	80,000	
				'				
	Micro-	Bacter	rial	Vertici	illium	Fusar	ium Ne	ematode
	naire			Wilt Re		Wilt		esistance
"Earlycot 31"	4.5	No		No		No		No
"Paymaster Dwarf"	4.25	Yes	3	No	- 1 7 1	No		No
,	<u></u>	<u> </u>						

"Earlycot 31" iniates first flower approximately 2 days prior to "Paymaster Dwarf". Also, the boll maturation period is approximately 3 days shorter for "Earlycot 31", giving a net earlier maturity of approximately 5 days for "Earlycot 31".

Bolls of "Paymaster Dwarf" are much larger that those of "Earlycot 31". Spacing between lateral nodes is greater for "Paymaster Dwarf" than for "Ferlycot 31".

than for "Earlycot 31"

Exhibit E, Statement of the Basis of Applicant's Ownership

"Earlycot 31" was developed through plant selection from (A-491, a Texas A & M experimental breeding strain. Although this strain was made available to all area breeders, only Agronomics, Inc. elected to make subsequent selections toward release of a commercial variety from this strain; and, at this date, Agronomics, Inc. is the first to apply for Plant Variety Protection for progeny selected from this strain.

Dr. Levon Ray of the Texas A & M Research Center, Lubbock, Texas made the cross of Paymaster Stormrider and an extremely early Yugoslawian strain during the mid 1950's, which resulted in the development of (A-491. If proof of this cross and subsequent selection is needed, Dr. Ray is willing to supply evidence of the cross.

To our knowledge, no othercotton breeder in the U.S. made this combination between Paymaster Stormrider and the Yugoslavian strain, thus it is inconcievable that another commercial variety with the same genetic characteristics would exist.

Only those breeders that received seed stock from Dr. Ray might have a variety genetically similar to "Earlycot 31" and they have assured Agronomics, Inc. that no such commercial variety exists.

14. SEEDS:

1 1 o

± 15 SEED INDEX (Fuzzy seed basis)

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782

OBJECTIVE DESCRIPTION OF VARIETY

INSTRUCTIONS: See Reverse.	COTTON (GOSSYPIUM SPP.)	
NAME OF APPLICANT(S)		FOR OFFICIAL USE ONLY
AGRONOMICS, INC.	and ZIP Code)	PVPO NUMBER 73055
P.O. BOX 16051	and zir codey	VARIETY NAME OR TEMPORARY
Lubbock, Texas 79490		DESIGNATION
		"EARLYCOT 31"
Place the appropriate number that describes the Place a zero in first box (e-s- 0 8 9 or 0 5	varietal character of this variety in th) when number is either 99 or less o	e boxes below. r 9 or less.
1. SPECIES:		
	OSSYPIUM BARBADENSE	
2. AREA(S) OF ADAPTION (0 = Not Tested, 1 = No	ot Adapted, 2 = Adapted):	
O EASTERN O DELTA	O CENTRAL 2 HI	GH PLAINS O EL PASO AREA
WESTERN LOW HOT VALLEYS	O SAN JOAQUIN OT	HER (Specify)
3. MATURITY (50% Open Boll):		·
1 0 NO. OF DAYS BARLIER THAN	. 4) 1 = COKER 310 2 =	DELTAPINE 16 3 = STONEVILLE 213
0 0 NO. OF DAYS LATER THAN	4 = PAYMASTER 111 7 = LANKART 57 8 =	5 = ACALA 1517-70 6 = ACALA SJ-1 OTHER (Specify) All Varieties
4. PLANT HABIT:		_
3 1 = SPREADING 2 = INTERMEDIATE	3 = COMPACT 3	1 = FOLIAGE SPARSE 2 = DENSE 3 = OTHER (Specify) Intermediate
5. PLANT HEIGHT:		
0 6 CM. SHORTER THAN		DELTAPINE 16 3 = STONEVILLE 213
0 2 CM. TALLER THAN	4 = PAYMASTER 111 7 = LANKART 57 8 =	5 = ACALA 1517-70 6 = ACALA SJ-1 OTHER (Specify)
5. MAIN STEM:		
1 = LAX 2 = ASCENDING 3 = ERECT	9 CM. TO FIRST 0 4	NO. OF NODES TO FIRST FRUITING BRANC (from cotyledonary node)
7. LEAF: 8. LEAF PUBESCENS		OUS (HAIRS AS SPARSE AS D2 SMOOTH)
0 6 WIDEST LEAVES 3 2 - SMOOTH	LEAF (DELTAPINE SMOOTH LEAF) PUBESCENCE (H ₁ OR H ₂) 5 = OTHER	3 = PUBESCENT (STONEVILLE 213) (Specify)
. LEAF COLOR:		
3 1 = VIRESCENT YELLOW 2 = LIGHT 5 = OTHER (Specify)	GREEN 3 = DARK GREEN (Acala-44	2) 4 = RED
5 = OTHER (Specify)		
1 1 = NORMAL 2 = OKRA 3 = SUPE	ER OKRA 4 = OTHER (Specify)	
il. FLOWER:		
2 1 = NECTARILESS 2 = NECTARIED		
Petals: 1 = CREAM 2 = YELLOW	Pollen: 1 = CREAM 2 = YE	LLOW Heterozygous
12. FRUITING BRANCH TYPE:		- V
2 1 = CLUSTER 2 = SHORT 3 = NORMAL	1 = DETERMINATE 2 = IND	ETERMINATE
3. GOSSYPOL CONDITION:		
3 1 = GLANDLESS 2 = REDUCE D GLANDS 4 = OTHER (Specify)	3 = NORMAL GLANDS	1 = NORMAL BUD GOSSYPOL 2 = HIGH BUD GOSSYPOL
		

1 = SPARSE (GREGG 35)

3 = HEAVY (ACALA SJ-1) 4 = OTHER (Specify)

Seed Fuzz:

2 = MODERATE (DPL-16)

5

	•	73055	EARLY COT
FORM GR-470-8	(REVERSE)		
15. BOLLS:			
2 Locules:	1 = 3-4 2 = 4-5 NO. SEEDS PER BO	DLL 35 0 LINT PERCEN	T 3 5 MM. DIAMET
Pitted:	1 = NONE 2 = FINELY 3 = COURSELY 5 0 0 GRAMS SEED PER BOLL		BROADER AT BASE BROADER AT MIDDLE
1 Type:	1 = STORMPROOF (WESTBURN 70) 2 = STORM RESISTANT (LANKART 57) 3 = OPEN (DELTAPINE 16)	Shape: 1 = LENGTH = WIDTH 3 = LENGTH = WIDTH 3 = LENGTH > WIDTH	
16. BRACTEO	.ES:		
3 Breadth:	1 = LENGTH < WIDTH 2 = LENGTH = WIDTH 3 =		•
1 Teeth:	1 = FINE 2 = COURSE	Teeth: 1 = 3-4 2 = 5-7 3 = 8-10 4 = OTHER (Specify)	
17. YIELD: Ca	mpared to-		
2 0 0	PERCENT LESS THAN	1 = COKER 310 2 = DELTAPIN 4 = PAYMASTER 111 5 = AC	NE 16 3 = STONEVILLE 21 Cala 1517-70
0 0	PERCENT MORE THAN	6 = ACALA \$J-1 7 = L/	ANKART 57
18. FIBER LE	IGTH (Complete one or more of the fallowing and give	the means):	
0 4 3	SPAN LENGTH 50%	SPAN LENGTH 2.5%	U.H.M. LEN
	MEAN LENGTH 31	STAPLE LENGTH 32nd INCHES	
UN UN	IFORMITY RATIO (MEAN/U.H.M.)	UNIFORMITY INDEX (50% SPAN/2.5% S	PAN)
19. FIBER STE	ENGTH AND ELONGATION:		
0 7 9	1,000 P.S.I.	ELONGATION E	STILOMETE
4 5 0	MICRONAIRE READING	YARN STRENGTH (Give test method)	STILOMETE
20. DISEASE:	(0 = Not Tested, 1 = Susceptible, 2 = Resistant)		
1 VERTICE		1 ROOT KNOT	BACTERIAL BLIGHT (Race 1)
1 BACTER		1 PHYMATOTRICHUM ROOT ROT	1 RHIZOCTONIA
0 ANTHRA		OTHER (Specify)	
23 102555	(A = N - T 1 - 2 - 2 - 2 - 2		
	0 = Not Tested, 1 = Susceptible, 2 = Resistant) EEVIL 1APHID	· ·- 1 · ·FLEAHOPPER ·· ·	- LEAFWORM
1	RMYWORM GRASSHOPPER	1 LYGUS	1 PINK BOLLWORM

REFERENCES: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

(1) Brown, Harry B., and J. O. Ware, 1958, Cotton, McGraw-Hill Book Company, Inc., New York.

STINKBUG

(2) Lewis, C. F., and H. H. Ramey, Jr., 1971, 1970 Regional Cotton Variety Tests, ARS 34-130, United States Department of Agriculture.

COLORS: Nickerson's or any recognized color fan may be used to determine flower color of the described variety.

SPIDERMITE